Contracts to Be Let

Bids received until Mar. 31, 1915.

Buttzville-Danville Road

Belvidere, Warren County, N. J.

Sealed proposals for the construction of a waterbound macadam road 5.755 miles long, known as the Buttzville-Danville Road, will be received by a Committee of the Board of Chosen Freeholders at the Courthouse in Belvidere, Warren County, New Jersey, on Wednesday, March 31, 1915, at 11:30 A.M.

Plans and specifications are on file and blank proposals may be obtained at the State Road Commissioner's office, Trenton, N. J., at the Danville Hotel, Danville, N. J., and at the Buttzville Hotel, Buttzville, N. J., also at the office of F. W. Salmon, County Engineer, Netcong, N. J.

Samples of approved materials are on file with the State Road Department and with the County Engineer and will be shown and explained to prospective bidders on request.

Plans and specifications may be purchased from the County Engineer upon payment of $5.00, which will not be refunded.

The right is reserved to reject any or all bids.

J. R. THATCHER, Director,
Board of Freeholders.

Bids received until Apr. 5, 1915.

Street Paving

Cumberland, Md.

SEALED proposals addressed to the Mayor and City Council of Cumberland, Md., will be received at the Office of the City Clerk, City Hall, endorsed "Proposals for Grading, Curbing, Paving and otherwise Improving Streets, under Cumberland City Paving Bonds," on or before 9:30 A.M. Monday, April 5th, 1915.

There are sixteen (16) Streets to be paved with Brick on Concrete Base, approximately there will be 57,000 square yards, requiring about two and a half million bricks.

BIDS may be made for the whole number of Streets, or for each street separately, to suit Bidders.

Plans and Specifications can be procured at the Office of the City Engineer, for which $1.00 per street will be charged, to be refunded on return of Plans in good order. A certified check for $50.00 must accompany Bid on each Street, to be returned after award of successful Bidder is announced.

Bids must be in the hands of the City Clerk, at the City Hall, Cumberland, Maryland, not later than 9:30 A.M., April 5th, at such time and place said Bids will be opened.

The Mayor and City Council of Cumberland reserve the right to reject any and all bids.

JAMES P. GAFFNEY, City Engineer.

Bids received until Apr. 6, 1915.

Paving

Auburn, N. Y.

Sealed proposals will be received by Hon. Charles W. Brister, Mayor, up to 8 o'clock P.M., April 6, 1915, for the paving of Franklin street, Chapel street and Avenue A. The approximate quantities are as follows:

Franklin street, 10,334 sq.yds. of vitrified brick, asphalt or bitulithic; 3,077 cu.yds. excavation; 6,200 lin.ft. concrete curb and gutter; 30 storm water inlets; 860 ft. sewer. Chapel street, 1,943 sq.yds. pavement; 900 cu.yds. excavation; 1,280 lin.ft. curb and gutter; 2 inlets; 30 ft. sewer. Avenue A, 942 sq.yds. pavement; 200 cu.yds. excavation; 427 ft. curb and gutter; 2 inlets; 40 ft. sewer.

Proposals may be submitted on any or all improvements. A certified check for $500 on Franklin street, $250 on Chapel street, $100 on Avenue A or a bond equal to 10% of the gross amount of the contract is required with each proposal. Plans and specifications can be obtained from Elbert C. Aldrich, City Engineer, upon payment of $10.00, said sum to be returned upon the return of the plans and specifications. Further information may be obtained of the City Engineer.

J. S. HANLON, City Clerk.

Bids received until Mar. 31, 1915.

Bloomsbury-Still Valley Road

Belvidere, Warren County, N. J.

Sealed proposals for the construction of a waterbound macadam road 2.91 miles long, known as the Bloomsbury-Still Valley Road, will be received by a Committee of the Board of Chosen Freeholders at the Courthouse in Belvidere, Warren County, New Jersey, on Wednesday, March 31, 1915, at 2:00 P.M.

Plans and specifications are on file and blank proposals may be obtained at the State Road Commissioner's office, Trenton, N. J., at the Bloomsbury Hotel, Bloomsbury, N. J., and at the Union Square Hotel, Phillipsburg, N. J., also at the office of F. W. Salmon, County Engineer, Netcong, N. J.

Samples of approved materials are on file with the State Road Department and with the County Engineer and will be shown and explained to prospective bidders on request.

Plans and specifications may be purchased from the County Engineer upon payment of $5.00, which will not be refunded.

The right is reserved to reject any or all bids.

J. R. THATCHER, Director,
Board of Freeholders.

Bids received until Apr. 1, 1915.

Disposal of Garbage

Wilmington, Delaware.

Sealed proposals, accompanied by plans and specifications for the disposal of garbage of the City of Wilmington, Delaware, will be received by the Board of Health, at their office, 6th and King Sts., until 3 p.m. April First, 1915, at which time and place the proposals will be opened and publicly read.

The contract to be let, will be for a term of Nine years, beginning June First, 1915. The amount of garbage to be disposed of, approximates, 14,000 tons, yearly.

Each proposal submitted, must be accompanied by a certified check upon a Bank or Trust Company doing business in the City of Wilmington, Delaware for the sum of Five Hundred Dollars ($500), drawn to the order of the Mayor and Council of Wilmington, Delaware.

General specifications and bidding blanks may be obtained from Mr. J. Austin Ellison, Secretary of the Board of Health after March First, 1915.

The right is reserved to award the contract under that proposal, the acceptance of which will in the judgment of the Board of Health best secure the efficient performance of work and to reject any or all bids.

BOARD OF HEALTH,
J. Austin Ellison, Secretary.

Bids received until Apr. 5, 1915.

Cement, Stone, Pipe, etc.

CORPORATION OF THE CITY OF WESTMOUNT, QUEBEC.

City Engineer's Department.

Tenders are invited for the following supplies for the year commencing 1st May, 1915:

1—Cement
2—Sand
3—Quarried stone
4—Crushed stone
5—Paving Blocks
6—Sewer Pipes
7—Bricks
8—Farm Tile
9—Coal

Specifications, form of tender and other information can be obtained at the office of the undersigned.

Sealed tenders marked "Tenders for Supplies" will be received by the Secretary-Treasurer up to Twelve Noon, April 5th, 1915.

The City Council reserves the right to reject the lowest or any tender and do not guarantee to grant an exclusive contract to any tenderer.

P. E. JARMAN, City Engineer.

Bids received until Apr. 6, 1915.

Street Improvements

Bayonne, N. J.

SEALED PROPOSALS will be received by the Council of the City of Bayonne, N. J., at a meeting to be held in the City Hall, on Tuesday, April 6th, 1915, at 8 o'clock p.m.,

FOR ALL LABOR AND MATERIAL REQUIRED FOR THE IMPROVEMENT OF THE FOLLOWING STREETS, VIZ.:

(1) Fourteenth Street, from Hudson Boulevard to Avenue A;

(2) Orient Street, from Fifth Street to Evergreen Street;

(3) Twentieth Street, from Hudson Boulevard to Avenue A;

(4) Thirty-eighth Street, from Hudson Boulevard to Avenue C;

(5) Hobart Avenue, from Third Street to Oak Street;

(6) Forty-seventh Street, from Broadway to Avenue E;

(7) Fifty-first Street, from Avenue B to Hudson Boulevard;

(8) Fifteenth Street, from Avenue A to Hudson Boulevard;

(9) Fifty-third Street, from Hudson Boulevard to Broadway;

(10) Twelfth Street, from Avenue A to Dummy Road;

(11) Linnet Street, from Orient Avenue to Ingham Avenue;

(12) Fiftieth Street, from Hudson Boulevard to Avenue C;

(13) Lord Avenue, from Fifth Street to Third Street;

(14) Avenue C, from Fifty-fourth Street to Morris Canal;

(15) Forty-first Street, from Avenue B to Avenue C;

(16) George Street, from Lexington Avenue to Hobart Avenue;

(17) Avenue A, from North Street to Thirty-first Street, with sheet asphalt, in accordance with plans and specifications on file.

Separate bids will be received for each street.

There will be required about 93,900 square yards asphalt paving on concrete, 35,000 lin. feet new bluestone curb, 6,500 lin. feet old curb reset, 9,500 square feet new concrete flag, 60,300 square feet flag reset, 100 square yards Belgian block pavement relaid, 63,800 square feet new bluestone flag, 2,300 lin. feet new concrete curb, 1,930 lin. feet new concrete curb and gutter, 43,200 cubic yards excavation, together with other appurtenances.

All bids must be on the regular forms provided for the purpose, and submitted in sealed envelopes plainly endorsed with the name of the bidder and the title of the improvement.

Checks submitted in lieu of bond must be certified, or the bid will be rejected.

Plans and specifications for the work are on file in the office of the City Surveyor, where blank forms of proposals or any other information may be obtained.

The amount of bond required and the time allowed for the completion of the work shall be as provided in the specifications.

Bids will be received subject to the filing of remonstrances against any of said improvements as provided by law, and the Council reserves the right to reject any and all bids.

By order of the Council.

WM. P. LEE, City Clerk.

Bids received until Apr. 6, 1915.

Electric Light Improvements

Kinston, N. C.

Sealed Proposals will be received until 5 P.M. of April 6, 1915, by the Mayor and City Council of Kinston, N. C., for Electric Light Plant Improvements.

New equipment includes 300 K.W. engine type generators, two belted generators, switchboard, 450 H.P. four-valve engine, condenser, centrifugal pump and motor, return tubular boilers. Bids on alternates to the above will be considered.

Building construction consists of extension to existing structures, station for centrifugal pumps, and about 1000 feet of terra cotta and cast-iron pipe line.

Each proposal must be accompanied by a certified check for not less than five per cent. of the amount of the proposal.

All proposals must be upon forms provided by the City.

The right is reserved to reject any or all bids.

Specifications, Proposal Form, and Plans will be on file in the office of the City Clerk at Kinston, N. C., and may be obtained from the office of the Consulting Engineer in Charlotte, N. C., upon application, accompanied by payment of five dollars, which will be refunded when Specifications and Plans are returned in good condition within thirty days after the date of receiving proposals.

FRED I. SUTTON, Mayor.
W. B. COLEMAN, Clerk.

Consulting Engineer:
GILBERT C. WHITE, Charlotte, N. C.

Bids received until Apr. 2, 1915.

Sewage Disposal Works, Pumping Station and Machinery

York, Pa.

Sealed proposals will be received by C. P. Shreiner, City Clerk, at City Hall, York, Pa., until 1:30 P.M., Apr. 2, 1915, for constructing Sewage Disposal Works and Pumping Station under "Contract A" and furnishing and installing machinery under "Contract B."

"Contract A" includes 3 settling tanks with outside measurements of about 83 feet square and 28 feet deep, with appurtenances, and a pumping station building, having concrete sub-structure and brick super-structure 26 feet wide by 58 feet long.

"Contract B" will include the furnishing and installing of all operating machinery including 3 five million gallon, motor driven pumps, 1 ten million gallon, gasoline engine driven pump, and various appurtenances.

Proposals for "Contract A" must be accompanied by a certified check on a National Bank for Twenty-five Hundred ($2,500) Dollars.

Proposals for "Contract B" must be accompanied by a certified check for Five Hundred ($500) Dollars.

The City reserves the right to reject any or all bids.

Plans and specifications may be obtained at the office of George W. Fuller, Consulting Engineer, 170 Broadway, New York, and at the office of the City Engineer, City Hall, York, Pa., upon a deposit of Ten ($10) Dollars, which sum will be refunded if the plans and specifications are returned in good condition within two weeks after bids are received.

Bids must be made on the Blank Form of Proposal bound with the specifications, and in case it is desired to bid on both contracts each bid shall be made in a separate pamphlet.

C. A. BOYER,
Superintendent of Streets & Public Improvements,
City Hall, York, Pa.

Bids received until Mar. 31, 1915.

Sale of Paving Warrants

Fargo, N. Dak.

Paving Warrants of the City of Fargo for about $140,000.00 will be sold March 31, 1915.

Bids will be received by the Board of Commissioners until 10:30 a.m., March 31, 1915, for the purchase of these warrants. Certified check for $500.00, payable to the City, shall accompany each bid.

Each bidder shall state:

1. The lowest rate of interest at which these warrants will be taken at par.

2. The premium, if any, which will be paid for the warrants if issued with six (6) per cent. interest, payable annually.

3. Separate proposal for purchase of warrants if issued with privilege of prior payment.

This issue of warrants will mature in annual installments extending over a period of fifteen (15) years; will have annexed coupons representing annual interest and will be in denominations of $500 or $1,000, as the City Commission may decide at the time bids are considered.

The warrants will be issued and delivered to the successful bidder June 1st of the current year. Bids may be submitted for a part of this issue of warrants.

A. R. WATKINS, City Auditor.

Dated, March 12, 1915.

Bids received until Apr. 7, 1915.

Main Intercepting Sewer

Fitchburg, Mass.

Sealed proposals will be received by the Board of Sewage Disposal Commissioners at their office, 745 Main Street, Fitchburg, Mass., until 3 o'clock p.m., Wednesday, April 7, 1915, for the construction of Section 7 of the main intercepting sewer covering a distance of about 3400 feet. Plans and specifications may be obtained at the office of the Commission upon the deposit of $5.00. The right is reserved to reject any and all bids, or to accept any bid should the Commissioners deem it for the interest of the city so to do.

ARTHUR H. LOWE,
DAVID M. DILLON,
DANIEL A. BOYLE,
Sewage Disposal Commissioners.

DAVID A. HARTWELL,
Chief Engineer.

Bids received until Apr. 6, 1915.

Reimproving Streets

Bayonne, N. J.

SEALED PROPOSALS will be received by the Council of the City of Bayonne, N. J., at a meeting to be held in the City Hall, on

TUESDAY, APRIL 6, 1915,
at 8 o'clock P.M.,

for all labor and material required for the reimprovement of the following streets: Sixteenth Street, between Broadway and Hudson Boulevard; Thirty-second Street, between Avenue A and Avenue E, with sheet asphalt, all under one contract.

There will be required about 14,900 square yards asphalt paving, 7,800 lin. feet old curb realigned and redressed, 150 lin. feet new curb, set in concrete; 150 lin. feet curb reset in concrete, 500 cubic yards broken stone, together with other appurtenances.

All bids must be on regular forms provided for the purpose, and submitted in sealed envelopes, plainly endorsed with the name of the bidder and the title of the improvement.

Checks submitted in lieu of bond must be certified, or the bid will be rejected.

Plans and specifications for the work are on file in the office of the City Surveyor, where blank forms of proposals or any other information may be obtained.

The amount of bond required is $10,000.

The time allowed for the completion of the work is sixty (60) days.

The Council reserves the right to reject any or all bids.

By order of the Council.

WM. P. LEE, City Clerk.

Bids received until Apr. 6, 1915.

Reimprovement of Streets

Bayonne, N. J.

SEALED PROPOSALS will be received by the Council of the City of Bayonne, N. J., at a meeting to be held at the City Hall, on

TUESDAY, APRIL 6, 1915,
at 8 o'clock P.M.,

for all labor and material required for the reimprovement of the following streets: 5th Street, from Avenue A to Broadway; 8th Street, from Avenue A to Broadway, and Humphreys Avenue, from 5th Street to 7th Street, with bituminous concrete, all under one contract.

There will be required 17,800 square yards bituminous concrete, 10,600 lin. feet old curb realigned and redressed, 700 lin. feet new curb set in concrete, 900 cubic yards broken stone, together with other appurtenances.

All bids must be on the regular forms provided for the purpose and submitted in sealed envelopes plainly endorsed with the name of the bidder and the title of the improvement.

Checks submitted in lieu of bond must be certified, or the bid will be rejected.

Plans and specifications for the work are on file in the office of the City Surveyor, where blank forms of proposals or any other information may be obtained.

The amount of bond required is $13,000.00.

The time allowed for the completion of the work is seventy (70) days.

The Council reserves the right to reject any or all bids.

By order of the Council.

WM. P. LEE, City Clerk.

Bids received until Apr. 12, 1915.

Reinforced Concrete Arches

Camden, N. J.

Separate sealed proposals are invited for constructing two reinforced concrete arches on Kings Highway for Camden County.

Plans and specifications are filed with the Engineering News, New York City; also with Fred. W. George, Clerk, Board Chosen Freeholders, Court House, Camden, N. J., who will mail a set to any address on receipt of $1.00 for each culvert. Bids will be received at Court House, Camden, immediately opened and publicly read on Monday, April 12th, at 11 A.M. Each bid must be accompanied by a certified check or cash in the sum of $1000.

FRED. W. GERCKE, Chairman Bridge Comm.

J. J. ALBERTSON, Co. Eng'r.

March 12, 1915.

Bids received until Apr. 6, 1915.

Repaving Streets

Bayonne, N. J.

SEALED PROPOSALS will be received by the Council of the City of Bayonne, N. J., at a meeting to be held in the City Hall, on

TUESDAY, APRIL 6, 1915,
at 8 o'clock P.M.,

for all labor and material required for the repaving with asphalt pavement, laid on old macadam foundation, the following streets: Thirty-fourth Street, from Avenue E to Avenue A; Thirty-sixth Street, from Broadway to Hudson Boulevard; Fifty-fourth Street, from Broadway to Hudson Boulevard, all under one contract.

There will be required about 20,980 square yards asphalt paving (wearing surface and binder); 11,460 lin. feet old curb realigned and redressed; 175 lin. feet new curb set in concrete; 600 cubic yards broken stone, together with other appurtenances.

All bids must be on the regular forms provided for the purpose, and submitted in sealed envelopes, plainly endorsed with the name of the bidder and the title of the improvement.

Checks submitted in lieu of bond must be certified, or the bid will be rejected.

Plans and specifications for the work are on file in the office of the City Surveyor, where blank forms of proposals or any other information may be obtained.

The amount of bond required is $13,000.

The time allowed for the completion of the work is ninety (90) days.

The Council reserves the right to reject any or all bids.

By order of the Council.

WM. P. LEE, City Clerk.

Bids received until Apr. 14, 1915.

Highway Improvements

OFFICE OF THE STATE COMMISSION OF HIGHWAYS,
Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock p.m., Wednesday, April 14, 1915, for the improvement of Highways in the following counties:

Albany (approx. length, 2.80); Allegany (approx. length, 6.71); Essex (approx. length, 5.34); Franklin, 3 highways (5.50, 4.91, 11.41); Monroe, 2 highways (2.14, 1.87); Oneida (approx. length, 6.65); Oswego, 3 highways (5.41, 5.22, 3.66); St. Lawrence (approx. length, 6.66); Wyoming (approx. length, 3.88).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the road is to be constructed. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.

I. J. MORRIS, Secretary.

Bids received until Apr. 12, 1915.

Notice for Bridge Bids

Columbus, Mont.

Board of County Commissioners of the county of Stillwater, Montana, will receive bids for bridges on or before 10:00 o'clock A.M. of April 12th, 1915, at which time bids will be opened.

Bids to be on the following bridges:

No.	Where	Length of Bridge, feet
9	Skew Bridge, Shane Creek	22
11	Butcher Creek, at Campbell place	30
12	East Rosebud, 5 miles above L. C. Piper	60
13	West Rosebud, above Fishtail	55
14	Absarokee, Rosebud River, riveted span	95

The board reserves the right to reject any or all bids. All bids must be addressed to Lloyd B. Barley, County Clerk, Columbus, Mont., inclosing certified check of 5 per cent. of bid.

For further particulars, specifications and plans for these bridges, write or call on R. W. BARR, County Surveyor.

By order of Board of County Commissioners.

B. F. HARRIS, Chairman,
By Lloyd B. Barley, County Clerk.

Dated this 6th day of March, 1915.

Bids received until Apr. 21, 1915.

Water Works Improvements

Durham, N. C.

Sealed Proposals will be received by the Mayor and Board of Aldermen of the City of Durham, N. C., at the City Hall, until 3 P.M. April 21st, 1915, for "Water Works Improvements," consisting of:

River Pumping Station, City Pumping Station, Filter House and Concrete Clear Water Well, Coagulating Basin, Filter Equipment for four units of ¾ million gallons each, Laying nine miles 20-inch cast iron pipe, Two Radial Brick Chimneys.

Proposals must be marked "Proposal for Water Works Improvements."

All proposals must be upon blank forms provided in Proposal and Contract.

Each proposal must be accompanied by a certified check for not less than five per cent. of the amount of the bid, as an evidence of good faith.

Specifications, Proposal and Contract forms and plans will be mailed upon application to the Engineer at Charlotte, N. C., when accompanied by the payment of twenty-five dollars to insure their return in good condition within thirty days after the date set for receiving proposals.

The right is reserved to reject any or all proposals.

W. J. BROGDEN, Mayor.
GEO. W. WOODWARD, Clerk.

Engineer—
GILBERT C. WHITE, Charlotte, N. C.

Bids received until Apr. 21, 1915.

Pumping Station Equipment

Durham, N. C.

Sealed Proposals will be received by the Mayor and Board of Aldermen of the City of Durham, N. C., at the City Hall, until 3 P.M. April 21st, 1915, for "Pumping Station Equipment" consisting of three-million gallon Crank and Flywheel Pumping Engines, Turbine driven Centrifugal Pumps, Feed Pumps, Open Feed Water Heaters, 5 K.W. and 7½ K.W. D.C. Electric Lighting Units, Manning Boilers.

Proposals must be marked "Proposal for Pumping Station Equipment."

All proposals must be upon blank forms provided in Proposal and Contract.

Each proposal must be accompanied by a certified check for not less than five per cent. of the amount of the bid, as an evidence of good faith.

Specifications, Contract and Proposal forms will be mailed upon application to the Engineer at Charlotte, N. C., when accompanied by payment of Ten Dollars to insure their return in good condition within thirty days after the date of receiving proposals.

The right is reserved to reject any or all proposals or to consider proposals on alternate equipment.

W. J. BROGDEN, Mayor,
GEO. W. WOODWARD, Clerk.

Engineer—
GILBERT C. WHITE, Charlotte, N. C.

Bids received until Apr. 13, 1915.

Highways

SEALED BIDS will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers Streets, New York City, until 11 A.M., on Tuesday, April 13, 1915, for Contract 152, for surfacing with vitrified brick blocks and macadam about 5 miles of highways and constructing about 8 miles of guard walls, at the Ashokan reservoir, in the towns of Olive, Marbletown and Hurley, Ulster county, New York. The grading for these highways has been largely done under other contracts.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, and contract drawings can be obtained at the above address, at the office of the Secretary, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Principal Assistant Engineer at the above address.

CHARLES STRAUSS, President,
CHARLES N. CHADWICK,
JOHN F. GALVIN,
Commissioners of the Board of Water Supply.
W. BRUCE COBB, Secretary.

Bids received until Apr. 14, 1915.

Water Works

Barker, N. Y.

Sealed proposals will be received by the Board of Trustees of the Village of Barker, N. Y., until 12 o'clock noon, on the 14th day of April, 1915, for the construction of about four and one-half miles of cast iron mains, stand pipe, sand filter and pure water reservoir, pump house, pumping apparatus and other accessories.

Bids will be received for the whole work, or for all except the stand pipe or pumps which may be bid for separately.

Plans may be seen and specifications obtained at the office of the Board at Barker, or at the office of Charles C. Hopkins, Engineer, 349 Cutler Building, Rochester, N. Y.

The Board reserves and has the right to accept or reject any proposal, to contract with other than the lowest bidder, or to reject any or all proposals and advertise again, as in its best judgment may be for the best interests of the Village.

Bonds satisfactory to the Board in amount and sureties will be required of those to whom contracts may be awarded. Surety company bonds are preferred.

A certified check, made payable to the order of the Treasurer of the Village of Barker, N. Y., to the amount of $1,000, must be deposited by the bidder for the general contract and accompany his bid as a guarantee that in case the contract is awarded him, he will, within seven days after notification of award, execute the contract. Bidders for the stand pipe or for the pumping apparatus shall each deposit a certified check to the amount of $300 as a similar guarantee.

Bids must be sealed and addressed to W. J. Taylor, Village Clerk, Barker, N. Y., and marked on the outside of the enclosing envelope, "Proposal for Barker Water Works."

GEORGE E. LANDY,
J. E. MORGAN,
J. A. DUTCHER,
F. W. McADAM,
G. C. NELLIST,
Trustees.

Dated Mar. 23, 1915.

Bids received until Apr. 12, 1915.

Barn and Vegetable Cellar

Bath, N. Y.

Sealed proposals for construction of Barn and Vegetable Cellar for the New York State Soldiers' and Sailors' Home, Bath, N. Y., will be received by Hon. Joseph A. Goulden, President, Board of Managers, New York State Soldiers' and Sailors' Home, Bath, N. Y., until 11 o'clock A.M. on April 12, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of $300.00 for the Barn and $100.00 for the Vegetable Cellar. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent. (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specification No. 2230. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Soldiers' and Sailors' Home, Bath, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $10.00 made payable to the State of New York for each set of plans and specifications, which check will be returned when plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

WM. H. NICHOLS, Secretary.

Dated
Bath, N. Y., March 23, 1915.

U. S. ENGINEER OFFICE, Pittsburgh, Pa., March 4, 1915.—Sealed proposals for furnishing and delivering steel maneuver-boat hulls, steamboat and hand capstans, derricks, kevels, spuds, etc., for Dams Nos. 10, 12, 15, 19, 20 and 29, and engines and electric light plants, etc., for maneuver boats at Dams Nos. 10 and 29, Ohio River, will be received at this office until 12 M. (Eastern Standard Time), April 3, 1915, and then publicly opened. Information on application. HAROLD C. FISKE, Captain, Engrs.

Bids received until Apr. 6, 1915.

Pumping Station and Pump

Lynchburg, Va.

Sealed proposals for the Installation of an Emergency Pumping Station and Booster Pump, addressed to the Council Committee on Water, and suitably endorsed, will be received by the Council Committee on Water, at Lynchburg, Va., until 12 noon, of Tuesday, the 6th day of April, 1915, and on that day in the Committee Room, Krise Building, the bids will be publicly opened and read.

Each bid must be accompanied by a certified check for five per cent. (5%) of the amount bid, made payable to Y. P. Marshall, Chairman of the Water Committee. This check will be returned to the bidder unless he fails to execute the contract should it be awarded to him.

A bond for twenty-five per cent. (25%) of the contract price will be required for the faithful performance of the contract, the sureties to be a substantial Surety Company satisfactory to the Water Committee, and authorized by law to do business in the State of Virginia. No personal surety will be accepted.

The Items of work to be done are as follows:

Division No. 1—Two brick buildings.

Division No. 2—Three centrifugal pumps.

Division No. 3—Transformers, motors, and other electrical equipment.

Division No. 4—Cast iron pipe, valves, etc.

Division No. 5—Liquid chlorine apparatus.

The Water Committee reserves the right to reject any or all bids should they deem it to be for the interest of the City of Lynchburg to do so.

H. L. SHANER, City Engineer.

Bids received until Apr. 13, 1915.

Building Construction, etc.

Industry, N. Y.

Sealed proposals for alterations and additions to Hospital Building, construction; heating; plumbing and drainage and electric work at the New York State Agricultural and Industrial School, Industry, N. Y., will be received by Mrs. Warham Whitney, President of the Board of Managers of the State Agricultural and Industrial School, Industry, N. Y., until 12 o'clock noon, April 13, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of $250.00 for construction work; in the sum of $60.00 for heating work; in the sum of $50.00 for plumbing and drainage and in the sum of $25.00 for electrical work. Contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent. of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specifications Nos. 2116, 2196, 2176 and 2177. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the State Agricultural and Industrial School, Industry, N. Y.; at the New York office of the Department of Agriculture, Room 1224, Woolworth Building, and at the Department of Agriculture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $10.00 made payable to the State of New York, for each set of plans and specifications, which check will be returned if plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

PROPOSALS FOR MANILA BOLT ROPE—Mississippi River Commission, First and Second Districts, Custom House, Memphis, Tennessee, March 20, 1915.—Sealed proposals for furnishing and delivering 62,200 lbs. pure manila bolt rope, will be received at this office until 11 a.m., April 10, 1915, and then publicly opened. Information furnished on application. E. M. MARKHAM, Maj., Engrs.

PROPOSALS FOR WIRE, WIRE STRAND, STAPLES AND CLIPS.—Mississippi River Commission, First and Second Districts, Custom House, Memphis, Tennessee, March 20, 1915.—Sealed proposals for furnishing and delivering about 725,000 lbs. galvanized wire, silicon bronze wire, wire strand, and staples, and 36,000 wire rope clips, will be received at this office until 12 m., April 10, 1915, and then publicly opened. Information furnished on application. E. M. MARKHAM, Maj., Engrs.

Bids received until Mar. 30, 1915.

Tenders for Supplies

DEPARTMENT OF WORKS.

Toronto, March 17th, 1915.

Tenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, Canada, up to noon on Tuesday, March 30th, 1915,

For the supply of

Tender No. 39. Sweeper Body and Equipment for Toronto Civic Ry., St. Clair Ave. Division.
40. Equipment for Machine Shop, for Toronto Civic Ry., Danforth Ave. Car Barn.
41. Mechanical and Electrical Equipment for Car Bodies, for Toronto Civic Ry., Lansdowne Ave. Extension.
42. Four Car Bodies, for Toronto Civic Ry., Lansdowne Ave. Extension.
43. Coal, for Water Supply Section.

Specifications and Tender Form for the foregoing may be obtained upon application at Room 12, Purchasing and Accounting Section of the Department of Works, City Hall, Toronto.

Envelopes containing tenders must be plainly marked on the outside as to contents.

The usual conditions relating to tendering as prescribed by City By-law, must be strictly complied with, or the tenders may be declared informal.

Tenderers shall submit with their tenders the names of two personal sureties, approved by the City Treasurer, or in lieu thereof, the bond of a guarantee company, approved as aforesaid.

The lowest or any tender not necessarily accepted.

T. L. CHURCH (Mayor),
Chairman, Board of Control.

Bids received until May 5, 1915.

Steam Turbine Driven Centrifugal Pump

Kansas City, Mo.

SEALED PROPOSALS will be received by the Purchasing Agent of Kansas City, Missouri, at the office of the Purchasing Agent, Second Floor, City Hall, until two o'clock p.m. of Wednesday, May 5th, 1915, for the designing, construction, delivery and erection of a steam turbine, reduction gear, centrifugal pumping unit of a capacity to pump continuously twenty (20) million U. S. gallons of water per twenty-four (24) hours, against a total combined head of three hundred and sixty (360) feet and steam pressure of one hundred and sixty-five (165) pounds per square inch at throttle; together with all machinery, tools and appurtenances necessary; all in accordance with the plans and general specifications on file in the office of the Chief Engineer of the Water Department.

Each bidder shall deposit with the City Comptroller a certified check in the amount of Seven Hundred and Fifty Dollars ($750.00), payable to the City Comptroller of Kansas City, Missouri, and accompany his bid with the Comptroller's receipt therefor.

The certified check referred to in the Advertisement shall be submitted by each bidder as a guaranty that the bidder will, within ten (10) days after receiving the award of a contract, file with the City a satisfactory bond to the amount of Twenty-five Thousand Dollars ($25,000.00) and will execute the contract.

The Board of Fire and Water Commissioners does not bind itself to accept the lowest or any bid offered, and reserves the right to reject any and all bids and to waive any informality when it seems to be to the interest of Kansas City, Missouri, to do so.

J. P. LANGAN, Purchasing Agent.
BURTON LOWTHER, Chief Engineer.

U. S. ENGINEER OFFICE, Louisville, Ky., March 19, 1915.—Sealed proposals for furnishing and delivering American Portland Cement for Dam 43, Ohio River, will be received here until 12 noon, central time, April 19, 1915, and then publicly opened. Information on application. J. C. OAKES, Major, Engrs.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 17, 1915.—SEALED PROPOSALS will be opened in this office at 3 p.m., April 29, 1915, for making betterments in the U. S. Post Office and Court House at Pensacola, Florida. Drawings and specifications may be obtained from the Custodian at Pensacola, Fla., or at this office. O. WENDEROTH, Supervising Architect.

U. S. ENGINEER OFFICE, Nashville, Tenn., March 13, 1915.—Sealed proposals for construction and erection of steel gates for Locks B and C, Cumberland River, will be received at this office until 11 a.m., April 12, 1915, and then publicly opened. Information on application. H. BURGESS, Major, Engineers.

FORT MONROE, Va., Mar. 17, 1915.—Sealed proposals will be received here until 12 M., Apr. 15, 1915, for furnishing material and labor required in Constructing Alterations of Casemates and Addition to Quartermaster Stables, including Plumbing and Electric Lighting. Information furnished on application to QUARTERMASTER.

U. S. ENGINEER OFFICE, Pittsburgh, Pa., March 6, 1915.—Sealed proposals for building a fire-proof power-house; furnishing and installing one 115-H.P. boiler, one 15-H.P. boiler, one steam-driven air compressor and two air receivers, piping and accessories, and furnishing one feed water heater, one feed water pump and one service water pump at Dam No. 10, Ohio River, will be received at this office until 12 M. (Eastern Standard time), April 5, 1915, and then publicly opened. Information on application. HAROLD C. FISKE, Captain, Engrs.

U. S. ENGINEER OFFICE, 540 Federal Building, Buffalo, N. Y., March 16, 1915.—Sealed proposals for dredging in Niagara River, N. Y., will be received at this office until 11 a.m., April 15, 1915, and then publicly opened. Information on application. J. G. WARREN, Col., Engrs.

U. S. ENGINEER OFFICE, Chicago, Ill., Feb. 27, 1915.—Sealed proposals for dredging in Indiana Harbor, Ind., will be received at this office until 10 a.m. March 29, 1915, and then publicly opened. Information on application. W. V. JUDSON, Lt. Col., Engineers.

U. S. ENGINEER OFFICE, Newport, R. I., Feb. 27, 1915.—Sealed proposals for dredging in Providence Harbor, R. I., will be received at the U. S. Engineer sub-office, Federal Building, Providence, R. I., until 12 o'clock noon, Mar. 30, 1915, and then publicly opened. Information on application. JOHN MILLIS, Col., Engrs.

U. S. ENGINEER OFFICE, Room 325 Custom House, New Orleans, La., Mar. 13, 1915.—Sealed proposals for furnishing and delivering about 10,000 cubic yards stone at South Pass and Southwest Pass, Mississippi River, will be received at this office until 11 A.M., April 13, 1915, and then publicly opened. Information on application. EDWARD H. SCHULZ, Maj., Engrs.

GOVERNORS ISLAND, N. Y. H., Mar. 15, 1915.—Sealed proposals, in triplicate, for furnishing Forage and Straw (three months' and a year's supply) and FUEL, GASOLINE, MINERAL OIL, BEEF and MUTTON, required in Eastern Department during year commencing July 1, 1915, will be received here until 11 a.m., April 14, 1915. Information furnished on application to Department Quartermaster.

Classified Advertising

Positions Wanted, 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

Positions Open, (Civil Service Examinations), **Employment Agencies** (Labor Bureaus), **Business Opportunities, Wanted** (Agents and Salesmen—Contract Work), **Miscellaneous** (Educational—Books), **For Sale,** 5 cents a word, minimum charge $1.00 an insertion.

Count four words for keyed address care of New York; five for Chicago. Abbreviated words or symbols count as full words.

Copy should reach us not later than 10 A.M. Wednesday for that week's issue. Answers addressed to our care, Tenth Avenue at Thirty-sixth St., New York or 1144 Monadnock Block, Chicago will be forwarded (excepting circulars or similarliterature).

No information given by us regarding keyed advertiser's name or address. Original letters of recommendation or other papers of value should not be inclosed to unknown correspondents. Send copies.

Advertisements calling for bids, $3.60 an inch per insertion. N

POSITIONS WANTED

Mechanical and Electrical Engineers

MECHANICAL ENGINEER—Long experience with dredging and contractors' plants; design, construction and maintenance; now engaged. P. W. 983, Eng. News.

MECHANICAL ENGINEER, designer, draftsman, desires position with first class firm. P. W. 18, Eng. News.

MECHANICAL ENGINEER, 35, technical school and 12 years' broad experience; New York interview. P. W. 42, Eng. News.

Civil Engineers

CIVIL ENGINEER, 11 years' varied experience, railroad construction, location and valuation surveys; excellent highway experience; at present in charge of work. P. W. 39, Eng. News, Chicago.

CIVIL ENGINEER, graduate; 12 years' practical experience with consulting engineers and utility companies; waterworks and other utilities; investigations, reports, design, construction, appraisals; references. P. W. 958, Eng. News.

CIVIL ENGINEER; with 12 years' experience on railroad location and construction, sewers, reinforced concrete construction and municipal engineering is open for engagement. Associate Member, American Society of Civil Engineers. P. W. 930, Eng. News, Chicago.

CIVIL ENGINEER; college graduate; Assoc. M. Am. Soc. C. E.; 10 years' experience, design and construction, docks, bridges, roads, canals, surveys. P. W. 21, Eng. News.

CIVIL ENGINEER, 30; eight years' experience in swamp drainage, sewers and general municipal engineering. P. W. 22, Eng. News.

CIVIL ENGINEER, 27, technical graduate, desires change; held responsible positions in irrigation location and construction, railway maintenance, cement and concrete work; now in Government service. P. W. 24, Eng. News.

CIVIL ENGINEER, graduate, 24, single, 2½ years' varied experience desires position on construction work or survey, location immaterial. P. W. 48, Eng. News.

GRADUATE CIVIL ENGINEER; 8 years' general experience, four on construction, railroad and land surveying, concrete, sewers, water lines. P. W. 49, Eng. News.

GRADUATE CIVIL ENGINEER, 12 years' experience in railroads, municipal, hydraulic and frog and switch work, desires position in the East. P. W. 975, Eng. News, Chicago.

GRADUATE CIVIL ENGINEER; 6 years' experience factory construction and structural drafting; best references. P. W. 58, Eng. News.

GRADUATE CIVIL ENGINEER; six years' varied experience in design and construction work with engineers and contractors. P. W. 55, Eng. News.

Bridge and Structural

BRIDGE AND STRUCTURAL ENGINEER with long experience holding responsible positions wishes to change location. P. W. 986, Eng. News.

STRUCTURAL ENGINEER, graduate, 10 years' experience designing bridges, industrial plants, water-supply, filtration, hydro-electric power. P. W. 10, Eng. News.

STRUCTURAL ENGINEER, estimator and checker, desires position; 10 years' experience with leading firms in New York; mill and office buildings a specialty. P. W. 3, Eng. News.

STRUCTURAL AND CONCRETE ENGINEER with long experience is open for position; best references. P. W. 5, Eng. News.

EXPERIENCED BRIDGE AND STRUCTURAL engineer, university graduate, wishes engagement in the Pittsburgh district. P. W. 30, Eng. News.

AN A-1 STRUCTURAL MAN; 6 years foreman templet shop, 7 years superintendent small shop, 8 years general foreman shop fabricating 20,000 tons per year; open for engagement; best of references. P. W. 17, Eng. News.

STRUCTURAL ENGINEER; was chief designer, squad boss and checker with leading firms; expert designer and detailer; city buildings, industrial plants, complicated structures, bridges, reinforced concrete design; wants responsible position. P. W. 60, Eng. News.

Surveyors

RAILROAD RODMAN TOPOGRAPHER, just off 10 months' job; wants similar position. P. W. 922, Eng. News.

INSTRUMENTMAN; age, 24; single; 3 years at Mass. Inst. of Tech., and summer surveying camp; 10 months' experience in field and office. P. W. 59, Eng. News.

YOUNG MAN, 23, three years' practical experience chainman, rodman, leveler, desires position. P. W. 44, Eng. News.

INSTRUMENT MAN, eight years' experience; three tropics; go anywhere. P. W. 36, Eng. News.

YOUNG MAN, 20, I. C. S. student, wishes work with surveying party, immaterial mine or surface work; will start at the bottom; reference from last engineer; willing worker; work anywhere. P. W. 40, Eng. News, Chicago.

SURVEYOR AND DRAFTSMAN; special track work, steam and electric, city and interurban construction, municipal improvements. P. W. 45, Eng. News.

Draftsmen

FIRST CLASS STRUCTURAL DRAFTSMAN; 12 years' experience detailing, estimating, checking, squadman; all lines work; best reference; desires position. P. W. 56, Eng. News.

Superintendents, Etc.

ENGINEER-SUPERINTENDENT, broad experience on dredging contracts, plant design and operation, and examinations for bids; reference to past and present engagements. P. W. 984, Eng. News.

EXPERIENCED FOREMAN (with or without gang) seeks position on construction work; best reference. P. W. 11, Eng. News.

AN ENGINEER OR SUPERINTENDENT of municipal affairs or to act as such on public-utility construction for private or public corporation; by former city manager and municipal engineer with technical education and six years' experience in every class of municipal activity—four as city engineer and two as city manager; will furnish data based on my experience of two years as city manager to cities desirous of adopting the city manager plan; employed at present as engineer of municipal affairs at salary of $1800; best of references; can report at once. Kenyon Riddle, Abilene, Kan.

DIPPER DREDGE SUPERINTENDENT, 10 years' wide experience, three full charge, will operate; best references. P. W. 6, Eng. News.

SUPERINTENDENT having 15 years' experience in charge of steam-shovel work on railways and canals construction wishes position by Apr. 1 with reliable contractor. P. W. 7, Eng. News, Chicago.

SUPERINTENDENT of paving; 22 years' experience with all kind of paving; a thorough organizer; temperate; P. W. 15, Eng. News.

SUPERINTENDENT of construction with 15 years' experience on heavy steam shovel work, earth and rock; good organizer; excellent references. P. W. 23, Eng. News.

SUPERINTENDENT OR GENERAL FOREMAN; past four years in charge unit methods of construction; also general experience in industrial buildings construction; age 31; unmarried; will go anywhere. P. W. 28, Eng. News, Chicago.

EXPERIENCED MAN (29) wants employment; urgent; chainman, rodman, timekeeper, stock clerk, night watchman, laborer or clerical work. G. L. M., 10 Pratt Ave., Mt. Vernon, N. Y.

CONTRACTING ENGINEER; 29, married, technical education; 5 years as principal assistant and right hand man on $5,000,000 of work to vice-president and chief engineer of large firm of contracting engineers on heavy pneumatic open foundation bridge work and general contracting; position required engineering and executive ability. P. W. 43, Eng. News.

CARPENTER FOREMAN or general, capable of taking full charge designing and building forms of all kinds, plant installation and management; sober and a live one. P. W. 46, Eng. News.

ENGINEER, 8 years' railroad experience wishes position as valuation engineer; references. P. W. 52, Eng. News.

SUPERINTENDENT OF CONSTRUCTION; 35 15 years' practical experience reinforced-concrete bridges, industrial buildings, dams, viaducts, etc.; good organizer; can produce results; best references; anywhere. P. W. 47, Eng. News.

ENGINEER with 12 years' experience, as follows: Railroad survey and construction, municipal work, sewer, paving, concrete bridge dam and buildings construction, highway construction, timber estimating and reports, expert land surveyor, experienced mill operator and can handle men; wants permanent position; at present employed. P. W. 50, Eng. News.

SUPERINTENDENT, ten years' experience reinforced-concrete buildings; high experience with chutes; sober; highest reference. P. W. 54, Eng. News.

AS SUPERINTENDENT, general or templet shop foreman of bridge and structural plant, 20 years' experience; will go anywhere. P. W. 53, Eng. News.

ENGINEERS TAKE NOTICE, graduate engineer, married, hard times' victim, solicits you aid for employment; 8 years' responsible positions; reinforced-concrete construction, stadia surveys, brick pavements, railroads. P. W. 51, Eng. News.

CONSTRUCTION ENGINEER, 29, technical graduate, six years' experience on construction work, desires position with established contracting firm; willing to make small investment; employed at present. P. W. 34, Eng. News.

CONTRACTOR'S SUPERINTENDENT-ENGINEER, 12 years' experience embracing railroad construction, track elevation, quarrying, heavy concrete work; references; must be permanent; salary $150. P. W. 35, Eng. News, Chicago.

ESTIMATOR in building construction and general contracting work; graduated civil engineer; over 10 years' experience, reinforced-concrete, brick masonry, steel and timber work; A-1 references; wants position. P. W. 61, Eng. News.

POSITIONS OPEN

EXPERIENCED HIGHWAY BRIDGE and structural steel salesman; location Southwest; state age, experience, salary and references. P. 37, Eng. News, Chicago.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

TECHNICAL ENGINEERS in every line for available positions; employers and applicants write The Toledo Engineering Agency, Toledo, Ohio.

LABOR BUREAUS

SPECIAL ADVANTAGES to contractors or others employing skilled or unskilled laborers. Commissary privileges optional. Central Labor Agency, 139 Mulberry St., New York. (Telephone 8970 Canal.)

EXPERIENCED FOREMAN seeks position on construction work; will furnish all necessary labor; best reference. L. B. 12, Eng. News.

WANTED

AGENTS AND SALESMEN

ENGINEER with some experience in structural design to sell Winslow's specialized Slide-Rules; simple, direct reading, quick. Good opportunity for first agent in each city. Henry W. Tomlinson, 62 East Van Buren St., Chicago.

BUSINESS OPPORTUNITIES

ENGINEER'S GRAND OPPORTUNITY—Long-established young contractor with unquestionable reputation and expert knowledge in the economical construction of public and private work and with exceptional ability in securing and executing profitable contracts desires to meet young graduate civil engineer who is willing to learn the contracting and construction line and take an active interest with an investment of from $15,000 to $25,000. B. O. 872, Eng. News.

FOUNDRY AND MACHINE SHOP in Kansas City; established 25 years; doing $100,000 to $125,000 business yearly; 1¼ acres land; brick buildings; located in the center of manufacturing district; have practically a monopoly on architectural castings in this city, and making large amount of machine castings; can make very attractive price and terms. B. O. 38, Eng. News.

WANTED—Party to invest $200,000 in an A1 coal property in Indiana that can be opened up for this amount and put on a paying basis of at least 50c. a ton profit; have a market for 2000 tons a day as soon as I can produce it. For full particulars address B. O. 41, Eng. News.

FOR SALE

ENGINEERING NEWS for sale; 1898-1907 inclusive bound and 1909-1911 inclusive unbound; what offer? F. S. 57, Eng. News.

CORRESPONDENCE COURSES

of instruction and practical work in designing and estimating the cost of structures of steel and reinforced concrete have been prepared by a well known Consulting Engineer.

FOR ENGINEERS

The personal attention of the engineer who prepared these courses is given to all the work submitted by each subscriber and therefore the membership is limited.

Two separate courses are offered, under the following designations,—

STRUCTURAL STEEL DESIGNING
REINFORCED CONCRETE ENGINEERING

These courses are *not* a duplication of the work given in technical colleges on these subjects, and are *not* a re-hash of matter taken from text books. This work differs from either because it gives the short concise practical methods actually used by engineers in such work, supplemented by labor saving tables and diagrams. They

PROVIDE ACTUAL EXPERIENCE

and save years spent in mis-directed efforts which are a necessary result of trying to acquire experience without the direct aid and assistance of an engineer properly experienced in such work.

Address M. 966, Engineering News

Classified List

Second Hand Machinery, Material and Equipment

For Sale—Exchange—Rent—Wanted

Items not otherwise marked list equipment for sale.

Rates: Less than 4 insertions 55 cents per line—4 to 11 insertions 50 cents per line—12 or more insertions 45 cents per line.

N

ADDRESSES

BECKWITH, J. S., 108 Park Way, N. S., Pittsburgh, Pa.
BRADEN, James C., 26 Cortlandt St., N. Y. City.
CARPENTER & Boxley & Herrick, Inc., 4th Ave. and 70th St., B'klyn, N. Y.
CONTRACTORS' Service Co., 50 Church St., N. Y. City.
DALLETT & CO., Harrison Bldg., Phila., Pa.
DOUGLAS, Geo. B., 29 Broadway, New York.
GIVIN Co., Herbert, 30 Church St., N. Y. City.
GRIMSHAW Co., Wm. B., 688 Drexel Bldg., Phila., Pa.
HITNER'S Sons Co., Henry A., Philadelphia, Pa.
HOISTING Engine Sales Co., 120 West 32d St., New York.
LINES FLYNN Co., Inc., 30 Church St., N. Y. City.
MARINE Metal and Supply Co., 167 South St., N. Y. City.
NEW RIVER Co., The, Macdonald, W. Va.
PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.
SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.
SCHMIDT, Jr., & Co., C. G. A., Empire Bldg., Phila., Pa.
SOUTHERN Iron & Equipment Co., Atlanta, Ga.
STALLEY, G. T., Box 390, Cleveland, Ohio.
WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

Most items are signed with only part of the advertiser's name. Complete names and addresses in alphabetical order will be found under the heading "Addresses."

AIR COMPRESSORS

2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON

1—4700 Cu. Ft. Rand B. B. 3 Compound Steam and Compound Air Compressor with Condenser.—SAMPSON.

Several second-hand air compressors, steam and belt driven, straight line and two stage of various sizes from 70 to 1300 cu. ft. capacities. Good condition.—SAMPSON.

1—22x22-13-¼x24, Sullivan, steam driven, class WB 2, straight line, 2 stage, cap., 1160 cu. ft., 1—24x24x30, McKiernan, class A, straight line, steam driven, cap. 1414 cu. ft.; 1—24x24-¼x30, Ingersoll, class A, steam driven, straight line, cap. 1223 cu. ft., 2—16x20-¼x16, Ingersoll-Sargeant, class H-1, duplex, steam driven, cap. 1540 cu. ft.—HITNER'S.

1 Blaisdell 16x10x10, 60 H.P., 342 cu.ft. First class condition.—THEO. SMITH & SONS CO., Jersey City, N. J.

Steam driven 3 Laidlaw-Dunn-Gordon duplex 2-stage, and 5 Norwalk tandem 2-stage, capacities 900 to 2100 cu.ft., condition excellent.—NEW RIVER.

3—24"x24"x30" Rand S. L. Price $1000 each.—L. F. SEYFERT'S SONS, INC., 437 N. 3rd St., Phila., Pa.

4—15 H.P. Abenaque outfits.—SCHMIDT.

BOILERS

5—250 H.P. B. & W., 150 lbs. steam. Horizontal return tubular, 2—72"x20', 1—78"x20', 1—72"x18', 1—72"x15', 1—72"x14', triple riveted, butt strapped, 125 lbs. steam.—HITNER'S.

35, 60 and 80 H.P. loco. boilers—PIPE.

6—550 H.P. Altman Taylor B. & W. type, 150 lbs. pressure, complete with steel supporting structure—Arranged to set two in battery; one battery equipped with Taylor stokers.—HENRY R. KENT & CO., 141 Broadway, New York, N. Y.

2 New Marine, 10x11'; prompt delivery.—WHITNEY.

BRIDGES

Revolving bridge 137' long, 21' wide, plank flooring, hand rails, hand power, located at New York City; can be inspected before removal.—PIPE.

BUCKETS

1—1 yd. Theo. Smith Orange Peel.—PIPE.

5—¾ cu. yd. standard clam shells.—STALLEY.

CARS

[Standard Gauge]

45—80,000 lb. flat cars, cheap.—WHITNEY.

[36" Gauge]

100 Western 4-yd. dump and 26 Koppel steel concrete.—CARPENTER.

[24" Gauge]

1½ yd. Western with Vulcan Dinkey.—DALLETT.

10—1 yd. swivel end dump cars.—PIPE.

80—36 cu.ft. Koppel "V" body.—SCHMIDT.

[Wanted]

30 dump cars, 36" gauge.—W. 899, Eng. News.

CRUSHERS

Farrel Jaw, 15x9, with screen and engine.—MARINE.

National Jaw, 14x8, on wheels.—MARINE.

Gyratory, Nos. 8, 7½, 6, 5, 4, 3.—GIVIN.

1 No. 2 Climax on trucks with 15' elevator with 18 H.P. mounted Climax portable engine and boiler.—BECKWITH.

1 Climax Portable plant complete, A1.—GIVIN.

1—18x36 Farrell; 1—24x36 Buchanan.—SCHMIDT.

DERRICKS

5 traveling, 50 HP. Lambert elec. hoists.—CARPENTER.

DREDGES

Hydraulic and dipper. Sale or charter.—GIVIN.

DRILLS

6 Ingersoll, type F-24, and 2 class "C" Little Giant rock drills.—BECKWITH.

Keystone traction No. 3 with placer equipment located at Prescott, Ariz.—L. J. HOHL, 525 Market St., San Francisco, Calif.

ELECTRIC LIGHTS

For sale at less than half cost. Sixty 300 C.P. D.C. 220 V. Nernst arc lamps, moon globes. In perfect running condition. Can be seen in use in our offices; $4 each. (Regular price, $9.50). Price includes drop lighting switch. Must sell as our voltage is 110 in new office. HILL PUBLISHING CO., 10th Ave. at 36th St., New York.

ENGINES, GAS

1 8 H.P. Vertical Type Fairbanks with sub-base.—SAMPSON

FIRE ENGINES

2 Fire Engines, condition, first class.—HITNER'S.

HAMMERS

1 No. 4 Arnott.—PIPE.

HOISTING ENGINES

Lidgerwood 10x12 D.D.D.C. side by side drums, 33" diam.—MARINE.

Lidgerwood, 5x8 D.D.D.C. with boiler.—MARINE.

1 3 drum National hoist 10x12 with boiler and three independent winch-heads, excellent condition; 4 7x10 D.C.D.D. Lidgerwood with boilers; 1 Lidgerwood D.C.D.D. with swinger, skeleton 7x10, and 1 National D.C.D.D. with swinger, skeleton 7x10.—PIPE.

2 Lidgerwood 14x18, D.C. 3-tandem drum, reversible link motion; 1 Lidgerwood, 10x12, D.C. S.D. reversible link motion; 1 Lambert, 10x12, D.C. D.D. with boiler; 2 Lambert, 8x10, D.C. D.D. with Mass. boilers; 1 Lambert 7x10, D.C. D.D. with boiler; 1 Mundy, 7¼x10, D.C. D.D. with boiler; 1 Mundy, 6¼x10, D.C. D.D. with boiler; 1 O. & S. 6¼x8, D.C. D.D. with boiler. 2 Lidgerwood, 60 H.P. D.D. and swinger d.c. hoists.—HITNER'S.

THREE HUNDRED hoists, 2 or 3 drum 7x10, 8¼x10, 9x10, 10x12, skeleton or boilers; 100 electric.—HOISTING.

INSTRUMENTS, SURVEYING

Second-Hand Transits, Levels, etc. Bought, sold or exchanged. Send for list of Second-Hand Instruments. Get our prices before ordering. WILLIAMS, BROWN & EARLE, Inc., Engineering Supplies, Dept. E, 918 Chestnut St., Phila.

$190 Sala Lt. Mt. Transit V circle, good cond., $115; $100 Buff & B. engrs. Dumpy level, inverting, fine, $70. Guaranteed. 99 others. Rentals, repairs, supplies.—ARCHITECTS' & ENGINEERS' SUPPLY CO., Kansas City, Mo.

LOCOMOTIVES

[Standard Gauge]

1 Porter, Std. G., 20-ton, 12x18, saddle tank.—DOUGLAS

50 locomotives, Switch, Mogul, Consolidation, Ten Wheel and Saddle Tank types.—SOUTHERN.

2—40 ton switchers, overhauled.—CONTRACTORS S. CO.

[36" Gauge]

10 10x16" Porter, Davenport and Vulcans.—SOUTHERN.

5 9x14" Porters.—SOUTHERN.

2—9x14 Baldwin saddle tank.—BECKWITH.

5—10x16 Vulcans, 1911-12.—CONTRACTORS S. CO.

5—11x16 Vulcan dinkies 1936 to 2039.—CARPENTER.

3—9x14 Porter dinkies 3146 to 3589.—CARPENTER.

[Wanted]

2 locomotives, 36" gauge.—W. 898, Eng. News.

LOCOMOTIVE CRANES

4 and 8-wheel, 10, 15 and 20 tons capacity.—HOISTING MACHINERY Co., 48 Church St., New York City.

4 and 8 wheel 10 and 15 ton.—CONTRACTORS S. CO.

15-ton Browning, 4-wheel, S. G., 50' boom.—DALLETT.

1—7 Ton, 4 wheel, Industrial, 21' boom; 1—15 ton, 8-wheel Industrial, wrecking crane, 20' boom, goose neck.—HITNER'S

15 ton excellent condition, cheap.—STALLEY.

4 and 8 wheel, 10, 15, 20 and 25 tons capacity.—GIVIN.

1—10 ton 4 wheel Brown hoist, A1 condition; low price for quick sale.—GIVIN.

MIXERS (Asphalt and Concrete)

Hadsel 2 yd. Batch, with engine,—on channels.—MARINE.

Smith ¾ yd. Batch with engine,—on skids—MARINE.

Foote (cont.) No. 3, 7½ H.P. motor D.C. on wheels.—MARINE

Portable plant, complete capacity 300-600 yds. per day; rare bargain.—LINES FLYNN.

1 cu.yd. Smith with engine on skids.—BECKWITH.

1 Eureka continuous 3 H.P. D.C. motor; 2 Austin cubes with engines and boilers on steel skids; 2—2½ Smiths with engines on wheels; 1 yd. and ½ yd. Ransomes on skids.—PIPE.

PILING, SHEET STEEL

165 pcs. Lackawanna 14" arch web, 22 and 24 ft. lengths, used once, excellent condition.—37 Dun Bldg., Buffalo, N. Y.

5000 pcs. Lackawanna, Carnegie, Jones & Laughlin, various widths and lengths. Send your inquiries.—GRIMSHAW.

PIPE

Wrought with new threads and couplings, all sizes.—PIPE.

PUMPS

1 Cameron 3½x2x4 Steam pump.—SAMPSON.

1 No. 8, 1 No. 9, 1 No. 10 Cameron.—MARINE.

2 Davidson Simplex 9x9x11.—MARINE.

1 Worthington Duplex 6x4x6.—MARINE.

1 Worthington Duplex 10x6x10.—MARINE.

2 Snyder-Hughes Vacuum 10x14x12 Simplex.—MARINE

1 No. 486 Emerson, 4" suc., 3" dis.—MARINE.

Piston and plunger, sizes up to 12x12x12.—NEW RIVER.

1 Compound duplex vertical center packed plunger, circulating pump, size 21—34x19—24, capacity 3500 gallons, 24 hours.—HITNER'S.

2 Emerson steam pumps No. 4; 1 Cameron 10x10½x20 and other sizes.—PIPE.

1—One million gallon, vertical, compound McGowan; only in operation about three years; reason for selling, installation of new equipment. Pump in good condition. Price and full description will be given by S. R. BLAKEMAN, Supt. of City Water & Light Dept., Dyersburg, Tenn.

RAILS

500 tons first-class 56 and 60 lb. rail.—CARPENTER.

40 ton of 35 lb. with fish plates.—PIPE.

20,000 cu.ft. 24" gauge 20 lb. portable track.—SCHMIDT.

[Wanted]

2000 ft. 36" gauge track.—W. 897, Eng. News.

ROAD ROLLERS

10-ton Russell, 3 wheel; overhauled, $1100.—GRIMSHAW.

2—10 ton Buffalo Pitts, practically new.—GIVIN.

1—8 ton Iroquois, used two months.—GIVIN.

2—5 ton Iroquois, perfect condition.—GIVIN.

1—5 ton Kelley tandem and 1—7 ton Chicago tandem, both rollers have been used but upon two jobs and are in most excellent condition.—Address the AMERICAN NATIONAL BANK, Findlay, Ohio.

Macadam and asphalt roller; also roller renting business located in N. Y. City.—F. S. 33, Eng. News.

10-ton macadam, used very little.—F. S. 31, Eng. News.

[Wanted]

Tandem paving roller. Send lowest cash price and description to W. 32, Eng. News.

SEWER PLANTS

2—Complete Sewer Contractor's Plants, including compressors and locks.—LINES FLYNN.

STEAM SHOVELS

Marion, model 60, steam shovel.—SOUTHERN.

1 ¾-yd. revolving traction, rebuilt.—LINES FLYNN.

1 70-ton Bucyrus, 2½ yd. dipper; Thew "O."—BRADEN.

2—65 ton, Bucyrus, 2½ Yd. dippers, $3000 each.—HITNER'S.

50 steam shovels, all makes and sizes; some used only two months; rent or sale. Rare bargains. Everything sold is guaranteed.—CONTRACTORS S. CO.

Thew "O" traction, high number, Mass. boiler.—DALLETT.

1 Model 0 Thew, built 1912, low price.—GIVIN.

1—Bucyrus, 18 B, traction revolving ⅞ yd.—GIVIN.

1 Marion Model 60, 1439 with 1 standard and 1 special boom, and 1 Model 75, 2112.—CARPENTER.

⅝ yd. Thew No. O, traction wheels; first-class, $2250.—GRIMSHAW.

Marion Model 31 revolving shovel for sale at Ringtown, Schuylkill County, Pa.—BENNETT & RANDALL, Lebanon, Pa.

[Wanted]

¾ yd. traction type.—W. 900, Eng. News.

TRAVELING CRANES

1 15-ton electric 36' 6" span.—DOUGLAS.

One—with clam shell bucket, new and cheap.—WHITNEY.

FOR SALE

Air Reheaters	Tripods	Pumps
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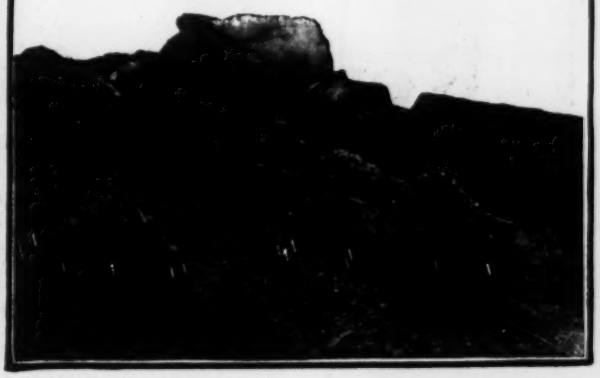

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